BRUHATH BANGALORE MAHANAGARA PALIKE

Yelahanka Division

Work Slip: As per Std Tender Documents

Name of Work: Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, S sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)

Estimate Amount:- 31,35,00,000.00

Name of Contractor:- Sri K.venkataraju Banglore

Approved amount:- 18,76,33,695.00

Tender premium:- 0.55%

Sl. No.	Description of Work	Unit	Qty as per Schedule			Total for Executed	Qty. as per Actuals upto 12th			Qty. as per Actuals above 12th			Total		Difference		Remarks
			Qty	Rates	Amount		Qty	Rates	Amount	Qty	Rates	Amount	Qty	Amount	Excess	Savings	
1	2	3	7	8	9	10	16	17	18	19	20	21	22	23	24	25	26
1	Removing and Relaying of footpath tiles and pointing in CM 1:3 (approved Rate)	Sqm	6357.46	259.93	1652517.00	6581.64	7946.83	259.93	2065646.00	1434.81	259.93	372956.00	6581.64	2438602.00	786085.00	0.00	
11	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of uncovered surfaces, disposing off as directed the excavated earth as swelling & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work)	Cum	8088.12	71.90	581539.00	13870.96	10110.15	71.90	726885.00	2760.81	71.90	198492.25	12870.96	925377.25	343669.29	0.00	
12	Construction of flexible sub-base of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density complete as per clause 401	Cum	4243.82	2596.02	11017323.00	5584.53	5304.78	2596.02	13771279.00	289.90	2596.02	752583.29	5594.68	14523862.29	3506539.29	0.00	
13	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including processing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density	Cum	5600.00	2648.00	14828480.00	7084.29	7031.25	2648.00	18619806.00	97.04	2648.00	2570621.84	7564.29	21190427.84	6361782.84	0.00	
14	Providing and applying primer coat with MC grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer in the rate of 2.90 kg per m2 using mechanical means	Sqm	31872.27	48.67	1551171.00	34668.16	34668.16	48.67	1687246.00	0.00	48.67	0.00	34668.16	1687294.00	136072.00	0.00	
15	Providing and laying Dense Graded Bituminous Macadam with 40/50 VHB capacity VMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30 @ 4.1 per cent by weight of total mix and Sand, conveying the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification Clause No. 505 complete in all respects.	Cum	2081.07	10938.22	22761468.00	2344.67	2344.67	10938.22	25649166.00	0.00	10938.22	0.00	2344.67	25649166.00	2887697.00	0.00	

Sl. No.	Description of Work	Unit	Qty as per Schedule			Total Qty Executed	Qty as per Agreement upto 125%			Qty as per Actuals above 125%			Total		Difference		Remarks
			Qty	Rates	Amount		Qty	Rates	Amount	Qty	Rates	Amount	Qty	Amount	Excess	Savings	
1	2	3	7	8	9	12	13	14	15	16	17	18	19	20	21	22	23
17	Providing and laying Bituminous Concrete with 40/50 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with Bituminous Binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects.	Cum	2001.23	12754.44	51003788.00	8882.42	8882.42	12754.44	38294137.00	0.00	12754.44	0.00	8882.42	38294137.00	1912349.00	0.00	
18	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes.	Sqm	2411.70	528.72	1275134.00	2756.23	2755.23	528.72	1457262.00	0.00	528.72	0.00	2756.23	1457262.00	182128.00	0.00	
19	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m3 in volume and stack piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separately.	Cum	356.60	466.77	166401.00	489.55	489.55	466.77	228579.00	0.00	466.77	0.00	489.55	228579.00	62178.00	0.00	
20	Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km	1Km	27704.65	106.19	2941856.00	28513.25	28513.25	106.19	3028883.00	0.00	106.19	0.00	28513.25	3028883.00	87027.00	0.00	
21	Providing and laying in position Reinforced cement concrete for all foundation works, The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS Codes, labour charges, charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M25 Design Mix using 20 mm nominal size graded crushed coarse aggregates)	Cum	83.21	7947.02	661309.00	123.70	124.01	7947.02	985384.00	19.68	7947.02	156359.56	123.70	1141743.56	156359.56	0.00	
22	Providing 12.5mm thick masonry with hard stone in foundation & plinth with Cement mortar 1:6(1 cement : 6 coarse sand)	Cum	123.31	3997.27	739124.00	156.61	156.61	3997.27	939245.00	0.00	3997.27	0.00	156.61	939245.00	199721.00	0.00	
23	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x100x200mm having Block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications	Sqm	24.43	1046.37	25564.00	278.68	90.56	1046.37	11480.00	248.13	1046.37	259601.81	278.68	271081.81	16397.81	0.00	

S. No.	Description of Work	Unit	Qty as per Schedule			Total Qty Executed	Qty. as per Actuals upto 125%			Qty. as per Actuals above 125%			Total		Difference		Remarks
			Qty	Rate in	Amount		Qty	Rates	Amount	Qty.	Rates	Amount	Qty	Amount	Excess	Savings	
1	2	3	7	8	9	10	11	12	13	14	15	16	17	18	18	19	20
32	Providing and laying water proofing treatment to the Roof with PU based single component elastomeric pure polyurethane based coating on New terrace/Chajjas/Sunken portion of WC/Bathroom, cold applied PU waterproofing membrane that is highly elastic with elongation greater than 400% and tensile strength greater than 1MPa as per ASTM D412. The waterproofing membrane to be applied in 2coats @ 1.5kg per m2 to achieve final DFT (dry film thickness) of 1mm including prime coat of epoxy primer @150 g per m2 and protection with 120gsm Geotextile over the waterproofing membrane. The finished cost to include surface preparation, making coving at junction, Bore Packing, treatment of construction joints complete as per specification & with a 10 years warranty on product & work from certified manufacturers as per the direction of the Engineer in charge.	Sqm	283.65	824.04	233803.00	890.10	356.81	824.04	294082.00	33.29	824.04	29078.46	390.10	323160.46	87322.46	0.00	
33	Providing hollow wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster grooves (excluding cost of cement concrete and side claming) but excluding cost of materials, labour, usage charges complete as per specifications.	Sqm	6.86	99983.68	685921.00	10.47	6.98	99983.68	697603.00	4.99	99983.68	498928.40	10.47	1196532.40	498928.40	0.00	
34	Fixing of door frame in an existing opening including embedding frame in floor and walls after cutting masonry for holdfasts for embedding holdfast in cement concrete 1:2:4 of 20mm and down size graded metal packing two coats of coal tar to sides of frame, making good the damage to walls and floor as required and disposal of the debris with lead upto 50 m including cost of materials, labour charges, complete as per specifications.	Nos	7.00	1642.56	11498.00	15.00	8.00	1642.56	13784.00	6.50	1642.56	9855.33	15.00	34429.33	11141.33	0.00	
37	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, squares or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding	Sqm	129.22	144.90	78601.00	649.32	649.32	144.90	94066.00	0.00	144.90	0.00	649.32	94066.00	15465.00	0.00	
38	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x4 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer, using M.S. angels 40x40x4 mm for diagonal braces including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.	Sqm	9.43	4048.33	38157.00	17.01	11.81	4048.33	47821.00	5.20	4048.33	21041.20	17.01	68862.20	30925.20	0.00	
39	Providing 15 mm cement plaster on the rough side of single or half brick wall of mix 1:4 (1 cement: 4 fine sand) including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.	Sqm	771.70	279.84	215955.00	1004.23	984.69	279.84	298644.00	39.59	279.84	11078.43	1004.23	309722.43	93767.43	0.00	

Sl. No.	Description of Work	Unit	Qty as per Schedule			Table Qty Executed	Qty. as per Schedule upto 125%			Qty. as per Actuals above 125%			Total		Difference		Remarks
			Qty	Rates	Amount		Qty	Rates	Amount	Qty	Rates	Amount	Qty	Amount	Excess	Savings	
1	2	3	7	8	9	17	33	32	19	34	35	36	37	38	39	40	41
43	providing and laying flooring and steps like machine polished granite stone slabs 20 mm thick on cement mortar bed 1:6, 20 mm thick, and joints finished with cement mortar 1:1 over existing cement concrete bed including cost of materials, mortar, labour, curing complete as per specifications.	Sqm	228.09	2655.75	605755.00	101.11	265.11	2655.75	737188.00	38.48	2655.75	102181.33	303.59	839369.33	233618.33	0.00	
44	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade. Two coats on new work after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge	Sqm	755.06	105.08	79342.00	995.00	443.83	100.08	99177.00	51.27	105.08	5387.22	995.09	394504.22	79162.22	0.00	
54	Providing and Fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings, VC fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of pipes complete as per direction of Engineer in charge. Concealed work, including cutting chases and making good the walls etc. 20mm nominal dia pipes	m	40.00	412.58	16506.00	50.00	56.25	412.58	23208.00	38.75	412.58	15987.29	95.00	39195.29	22689.29	0.00	
63	Providing and fixing Steel work welded in built up sections/ frames work, including cutting, hooking, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required, in gratings, frames, guard bar, railings, ladings, brackets, gates and similar works including cost of materials, labour, cage charges (chowkidars) complete as per specifications and as per directions of the Engineer-in-Charge. (V-2 Page No.83, Item No.11.25.2 of PWD SR 2021-22) Issue Rate On 07.04.22	Kg	462.00	147.11	67966.00	1405.23	577.50	147.11	84957.00	827.75	147.11	121771.32	1405.25	206728.32	138762.32	0.00	
67	Concealed Conduit before Supplying heavy gauge PVC conduit pipe 32mm dia 2.5mm metal/PVC junction boxes adhesive paste etc. By groove cutting in the wall and fixing by bracing U or J hooks and cement plastering so to the surface of the brick lined and run with 18 SWG GI fish wire run through out the conduit wherever necessary 32mm dia 2.5 mm thick (Page No.2, Item No.2.3.3 of PWD Electrical 16 2021-22)	m	10.00	105.58	1056.00	100.00	12.50	105.58	1320.00	87.50	105.58	9240.44	100.00	10560.44	9504.44	0.00	
69	1.5 Sqmm	m	90.00	26.14	2353.00	100.00	100.00	26.14	2615.00	0.00	26.14	0.00	100.00	2615.00	262.00	0.00	
77	6.32 Ashok DP	Each	15.00	1109.12	16637.00	18.00	18.00	1109.12	19965.00	0.00	1109.12	0.00	18.00	19965.00	3328.00	0.00	

Sl. No.	Description of Work	Unit	Qty as per Schedule/Bill			Total Qty Executed	Qty as per Actuals upto 12%			Qty as per Actuals above 12%			Total		Difference		Remarks
			Qty	Rates	Amount		Qty	Rates	Amount	Qty	Rates	Amount	Qty	Amount	Excess	Savings	
1	2	3	4	5	6	10	11	12	13	14	15	16	17	18	19	20	21
111	Supply of CI mark 17Sets material like plain and steel casing pipe grade of steel fe 410 of wall thickness conforming to IS 4270-2003 and spiral reinforcement, electrical resistance welded steel tubes, material and conforming to IS 1387-1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5-7m with welded/threaded conforming to IS 554-1985 one end fixed with socket conforming to IS 4270-2003 and the other end with screwed plain all shall be reasonably free from defects. The tubes shall be reasonably straight and should be with CI marking weighing 25.20kg/m unless include Cello-Medium duty	Rmt	60.00	2158.00	129480.00	70.00	70.00	2138.09	149667.00	0.00	2158.09	0.00	70.00	149667.00	21781.00	0.00	
															707668.94		

Note: Percentage of Worksip over the sanctioned Estimate=Excess amount over the approved amount/ Approved Amount x 100

Approved Amount =	1875188.00
Excess Amount =	707668.94
Percentage of Worsip =	Excess Amount / Approved Amount X 100
Percentage of Worsip =	12.38 %

Contractor

Assistant Engineer

Executive Engineer